

Proving Ground Demonstration Proposal

- (1) **Project Title:** GOES-R Proving Ground Aviation Weather Testbed - AAWU
- (2) **Organization:**
 - a. Alaska Aviation Weather Unit, Anchorage, AK
- (3) **Products to be demonstrated (list the GOES-R Products you would like to demonstrate as a GOES-R Proving Ground activity):**
 - a. Volcanic Ash Detection and Height (Pavolonis)
 - b. SO₂ (Pavolonis)
 - c. Cloud Top Height (Heidinger)
 - d. UW Convective Initiation (Feltz)
 - e. Low Cloud and Fog (Pavolonis)
 - f. Principle Component Imagery of Volcanic Ash (Hillger)
- (4) **Demonstration Project Summary:**
 - a. To improve forecaster skills resulting in more accurate and timely forecasts and warnings.
 - b. To educate developers in Aviation-related operations and constraints
 - c. To educate forecasters in latest aviation research
 - d. To support the production of aviation weather products using IC4D, ALPS, AWIPS and AWIPSII
- (5) **Participants (Centers) involved:**
 - a. Providers
 - i. NOAA/NESDIS
 - ii. CIMSS
 - iii. CIRA
 - iv. SPoRT
 - b. Consumers
 - i. Alaska Aviation Weather Unit
 - ii. ANC, FAI, and JNU WFOs (support the TAF)
- (6) **Project schedule/duration (timeline):**
 - a. Begin: June 2010 (planning)
 - b. First products into testbed: October 2010
 - c. Midterm Report: December 2010
 - d. Final Evaluation Report: August 2011

Proving Ground Product	Acquisition into Testbed due date	Evaluation Campaign dates
Convective Initiation	October 2010	Oct.2010-Aug.2011

Proving Ground Product	Acquisition into Testbed due date	Evaluation Campaign dates
Volcanic Ash: Detection and Height; SO ₂ Detection	October 2010	Oct. 2010-Aug. 2011
Cloud Top Height	November 2010	Nov.2010-Aug. 2011
Low Cloud and Fog	October 2010	Oct.2010-Aug. 2011

(7) Project decision points and deliverables

- a. Proving Ground Operations Plan
- b. Proving Ground Final Report

(8) Responsibilities and Coordination

- a. Gary Hufford – NWS ESD
- b. Tony Hall – AAWU
- c. Nathan Eckstein (SOO), AAWU
- d. Carl Dierking (SOO), JNU WFO
- e. Eric Stevens (SOO), FAI WFO
- f. James Nelson (SOO), ANC WFO
- g. Ken Pryor & Wayne Feltz, UW-CIMSS – Aviation Application Team co-leads
- h. Bonnie Reed, NOAA/NWS/OST – NWS PG Lead
- i. Dick Reynolds – GOES-R Program Office

(9) Budget and resource estimate